

CLAIMS

1. A glass reinforcing yarn, the composition of which essentially comprises
5 the following constituents, within the limits defined below, expressed in percentages by weight:

	SiO ₂	50 - 65%
	Al ₂ O ₃	12 - 20%
	CaO	13 - 16%
10	MgO	6 - 12%
	B ₂ O ₃	0 - 3%
	TiO ₂	0 - 3%
	Na ₂ O + K ₂ O	< 2%
	F ₂	0 - 1%
15	Fe ₂ O ₃	< 1%.

2. The glass yarn as claimed in claim 1, characterized in that the composition has an MgO + Al₂O₃ content of greater than 24%.

3. The glass yarn as claimed in either of claims 1 and 2, characterized in that the composition has an SiO₂ + Al₂O₃ content of greater than or equal to 70%.

20 4. The glass yarn as claimed in one of claims 1 to 3, characterized in that the composition has an Al₂O₃/(Al₂O₃+CaO+MgO) weight ratio that varies from 0.40 to 0.44 and is preferably less than 0.42.

5. The glass yarn as claimed in one of claims 1 to 4, characterized in that the composition has a CaO/MgO weight ratio of greater than or equal to 1.40 and
25 preferably less than or equal to 1.8.

6. The glass yarn as claimed in one of claims 1 to 5, characterized in that the composition essentially comprises the following constituents:

	SiO ₂	56 - 61%
	Al ₂ O ₃	14 - 18%
30	CaO	13 - 16%
	MgO	8 - 10%
	B ₂ O ₃	0 - 2%
	TiO ₂	0 - 2%
	Na ₂ O + K ₂ O	< 0.8%
35	F ₂	0 - 1%.

Fe_2O_3 , < 0.8%.

7. A composite consisting of glass yarns and one or more organic and/or inorganic materials, characterized in that it comprises glass yarns as defined by one of claims 1 to 6.

5 8. A glass composition suitable for producing glass reinforcing yarns, which essentially comprises the following constituents, within the limits defined below, expressed in percentages by weight:

	SiO_2	50 - 65%
	Al_2O_3	12 - 20%
10	CaO	13 - 16%
	MgO	6 - 12%
	B_2O_3	0 - 3%
	TiO_2	0 - 3%
	$\text{Na}_2\text{O} + \text{K}_2\text{O}$	< 2%
15	F_2	0 - 1%
	Fe_2O_3	< 1%.